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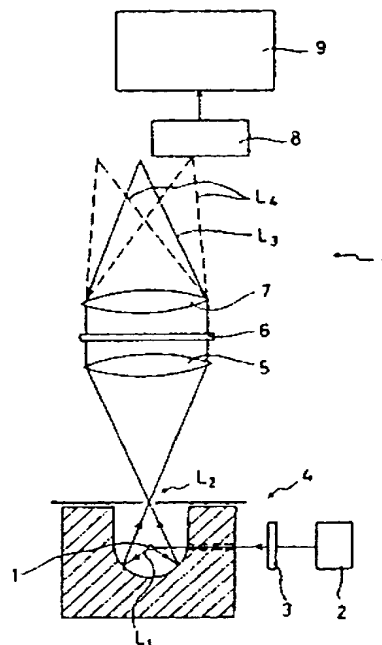
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TITLE : METHOD AND APPARATUS FOR
 MULTIWAVELENGTH FLUORESCENT
 AND PHOSPHORESCENT ANALYSIS



ABSTRACT : PURPOSE: To easily obtain the information on various analysis with high sensitivity by providing a condensing optical system, collimating lens, transmission type diffraction grating, condenser lens, and one-dimensional detector or two-dimensional detector.

CONSTITUTION: A stimulating light source 2 casts stimulating light to a sample component in a flow cell 1 for detection, such as liquid chromatography, and a chopper 3 open and closes the irradiation light. The fluorescence or phosphorescence L_1 emitted from the sample by the irradiation of the stimulating light is condensed by the condensing optical system 4 to a spot light source or linear light source L_2 . This light is spectrally analyzed. The collimating lens 5 of a small numerical aperture having a focus at the position of the spot light source or linear light source L_2 , the transmission type diffraction grating 6 which spectrally splits the light transmitted through the lens 5, the condenser lens 7 which condenses the light transmitted through the grating 6, and the one-dimensional detector or two-dimensional detector 8 installed in the focal position of the lens 7 are provided as the optical system for making the spectral analysis. A computer 9 is connected to the output side of the detector 8.

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